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Kazuaki Ishizaki, Mikio Takeuchi, Kiyokuni Kawachiya, Toshio Suganuma, Osamu Gohda, Tatsushi Inagaki, Akira Koseki, Kazunori Ogata, Motohiro Kawahito, Toshiaki Yasue, Takeshi Ogasawara, Tamiya Onodera, Hideaki Komatsu, Toshio Nakatani

 October 2003 [ACM SIGPLAN Notices](#), [Proceedings of the 18th ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications](#), Volume 38 Issue 11

Full text available: pdf(405.65 KB)

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This paper describes the system overview of our Java Just-In-Time (JIT) compiler, which is the basis for the latest production version of IBM Java JIT compiler that supports a diversity of processor architectures including both 32-bit and 64-bit modes, CISC, RISC, and VLIW architectures. In particular, we focus on the design and evaluation of the cross-platform optimizations that are common across different architectures. We studied the effectiveness of each optimization by selectively disabling ...

Keywords: Java, just-in-time compiler, optimization2 [Effective Enhancement of Loop Versioning in Java](#)

Vitaly V. Mikheev, Stanislav A. Fedoseev, Vladimir V. Sukharev, Nikita V. Lipsky

April 2002 [Proceedings of the 11th International Conference on Compiler Construction](#)Additional Information: [full citation](#)3 [Elimination of Java array bounds checks in the presence of indirection](#)

Mikel Luján, John R. Gurd, T. L. Freeman, José Miguel

November 2002 [Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande](#)

Full text available: pdf(193.97 KB)

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The Java language specification states that every access to an array needs to be within the bounds of that array; i.e. between 0 and array length 1. Different techniques for different programming languages have been proposed to eliminate explicit bounds checks. Some of these techniques are implemented in off-the-shelf Java Virtual Machines (JVMs). The underlying principle of these techniques is that bounds checks can be removed when a JVM/compiler has enough information to guarantee that a sequence ...

Keywords: Java, array bounds check, array indirection